

Relay Drivers

SEM127

Mftr.	Pins	Description
2585	ALEG 18	LED/Relay Source Driver, 8 NPN Darlington +5V input, 250mA output
2981	ALEG 18	LED/Relay Driver, 8 NPN Darlington +5V input, 500mA output
2982	ALEG 18	LED/Relay Driver, 8 NPN Darlington +6V to +15V input, 500mA output
3680	NSC 14	Quad Relay Driver (Negative), TTL/CMOS Compatible
5090	PS 16	Addressable Relay Driver

Mftrs. List No.	Order Code	Price Each			
		1+	10+	100+	250+
UDN2585A	405-838.				
UDN2981A	405-840.				
UDN2982A	405-851.				
DS3680N	408-773				
NE5090N	408-797				

Remote Control ICs

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Mftr.	Pins	Description
6	HT 18	Rolling Code decoder with learning function
6	HT 8	Rolling Code decoder with 31 set address
12	HT 18	8-bit Decoder with 2 ¹⁶ address code and 4-bits of encoder data at 4 decoder output pins. Complements HT12E
12	HT 18	12-bit, Low Power, High Noise Immunity Encoder
12	HT 20	12-bit, Low Power, High Noise Immunity Encoder (SOP)
12	HT 20	12-bit Decoder with 2 ¹⁶ address code. Complements HT12E (SOP)
12	HT 18	12-bit Decoder with 2 ¹⁶ address code. Complements HT12E
95	FCH 14	High Security Code Generator, RC clocked
95	FCH 14	High Security Code Generator, crystal oscillator clocked
640	HT 24	10-bit Address, 3 ¹⁸ Encoder
651	HT 24	18-bit Address, 3 ¹⁸ Decoder, compliments HT640
6026	HT 16	3 ⁹ Remote Controller Encoder (MC145026 compatible)
14469	ON 20	CMOS Remote Addressable UART with full duplex operation, 2 ⁷ address codes and 7 data bits
57C200	NSC 20	CMOS Encoder/Decoder

Mftrs. List No.	Order Code	Price Each				
		1+	10+	100+	250+	500+
HT6P50	791-052					
HT6P60	791-131					
HT12D	563-250					
HT12E	562-415					
HT12E-20SOP	SMD NEW 353-8709					
HT12F-20SOP	SMD NEW 353-8710					
HT12F	562-427					
NM95HS01N14	597-259†					
NM95HS02N14	597-260†					
HT640	791-271					
HT651	791-283†					
HT6026	791-260					
MC14469P	789-379.					
MM57C200N	408-906					

† Available until stocks are exhausted

KEELOQ Evaluation Kit



The kit demonstrates the capabilities of Microchip's code hopping technology. The encoder devices are designed to be the transmitter portion and the decoders as the receiver portion to a keyless entry system.



Typical applications for the Keeloq devices include:

- Keyless entry
- Security systems
- Garage door openers
- Central locking systems
- Transaction cards
- Immobilizers
- ID tokens
- Electronic tagging
- Passive transponders

The Evaluation kit includes the necessary hardware to evaluate code hopping system and demonstration software program on 3.5" disk.

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- The code hopping encoders feature:
- Programmable 28/32-bit serial number
 - Programmable 64-bit encryption key
 - Each transmission unique
 - Encryption keys are read protected

Supplied with a universal power supply. UK or International power supply optional. UK or European mains plug lead available separately.

Keeloq Evaluation Kit	Order Code 300-2913	each
Keeloq HCS410 Evaluation Kit	Order Code 300-2883	each
Keeloq software decoding license	Order Code 300-3050	each
Secure Data Products Handbook	Order Code 300-3061	each
Power Supply 9V, 500mA (UK 240Vac)	Order Code 110-899.†	each
Power Supply 9V, 900mA (IEC 110-240Vac)	Order Code 110-711.	each
UK mains plug lead	Order Code 439-319	each
European mains plug lead	Order Code 210-699	each

† Available until stocks are exhausted

Pins	Description
200	8 Code hopping encoder, 66-bit transmission code length, 32-bit hopping code, 28-bit serial number, 4-bit function code, 3.5V - 13.0V operation
301	8 Code hopping encoder, 66-bit transmission code length, 32-bit hopping code, 28-bit serial number, 4-bit function code, 2-bit status, 3.5V - 13.0V operation ..
360	8 Code hopping encoder, 67-bit transmission code length, 32-bit hopping code, 28/32-bit serial number, 4/0-bit function code, 1-bit status, 2-bit CRC, 2V - 6.6V operation.
410	8 Code hopping encoder and transponder
500	8 Code hopping decoder, compatible to HCS200/300/301/360 encoders

Mftrs. List No.	Order Code	Price Each				
		1+	10+	100+	250+	500+
HCS200ISN	300-2950					
HCS301ISN	300-2998					
HCS360ISN	300-3000					
HCS410ISN	300-2901					
HCS500ISM	300-3048					

KEELOQ Programming System

The Keeloq programmer provides manufacturing with the capability to program HCS200/300 series, 410 encoders and HCS500 decoders.

The programmer is supplied with:

- Software to automate programming of the devices
- Smartcard reader
- Smartcards
- Set of probes
- PCB and accessories to interface with the host PC
- User's guide with easy-to-follow 'Getting Started'
- Universal power supply

Keeloq Programming System	Order Code 300-2949	each
Power Supply 9V, 500mA (UK 240Vac)	Order Code 110-899.†	each
Power Supply 9V, 900mA (IEC 110-240Vac)	Order Code 110-711.	each
UK mains plug lead	Order Code 439-319	each
European mains plug lead	Order Code 210-699	each

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